

| Ref # | Hits   | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|--------|---|---|------------------|---------|------------------|
| L1    | 2      | ("5475670").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/08/19 19:16 |
| L2    | 113163 | semiconductor adj2 laser  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/08/19 19:18 |
| L3    | 25971  | L2 and (photodetector (laser adj3 reception) (photo adj2 diode) photodiode (photo adj2 sen\$4) (light adj2 receiv\$4))                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/08/19 19:18 |
| L4    | 7      | L3 and (diffract\$4 grat\$4)and ((three with (diffract\$4 grat\$4)) near beam) and grating near width                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/08/19 19:18 |
| L5    | 7      | L3 and (diffract\$4 grat\$4)and ((three with (diffract\$4 grat\$4)) near beam) and (grating near width)                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/08/19 19:24 |
| L6    | 2      | L2 and (diffract\$4 grat\$4)and ((three with (diffract\$4 grat\$4)) near beam) and (grating near width) and (grat\$4 near (groove depth)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2005/08/19 19:42 |
| L7    | 1      | ("6072607").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/08/19 19:34 |
| L8    | 2      | ("6278548").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/08/19 19:38 |
| L9    | 2      | ("20040081064").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/08/19 19:38 |

|     |          |   |   |    |     |                  |
|-----|----------|---|---|----|-----|------------------|
| L10 | 49       | L2 and (diffract\$4 grat\$4)and<br>(three with (diffract\$4 grat\$4))<br>and ((diffract\$4 grating) near<br>width) and ((diffract\$4 grat\$4)<br>near (groove depth)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/19 19:58 |
| L11 | 0        | ("jpa981942").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/08/19 19:49 |
| L12 | 1        | ("0981942").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/08/19 19:49 |
| L13 | 16117250 | jp "70272303"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/19 19:50 |
| L14 | 0        | "70272303"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/19 19:51 |
| L15 | 0        | "7272303"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/19 19:51 |
| L16 | 0        | jpa81942  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/19 19:51 |
| L17 | 10       | "981942"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/19 19:53 |
| L18 | 0        | "7272303"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/19 19:53 |
| L19 | 0        | "70272303"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/19 19:53 |

|     |        |  |   |    |     |                  |
|-----|--------|--|---|----|-----|------------------|
| L20 | 2      | "07272303"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/19 19:54 |
| L21 | 3      | "0981942"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/19 19:55 |
| L22 | 2      | ("20050162995").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/08/19 19:55 |
| L23 | 7      | (diffract\$4 grat\$4)and (three with<br>(diffract\$4 grat\$4)) and<br>((diffract\$4 grating) near width)<br>and ((diffract\$4 grat\$4) near<br>(groove depth)) and ((depth<br>groove) near varies) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/19 19:59 |
| S1  | 473    | vy.xa.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/18 17:05 |
| S2  | 38365  | ("372").CLAS.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/08/18 17:05 |
| S3  | 142    | S1 and S2  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/18 17:13 |
| S4  | 113163 | semiconductor adj2 laser   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/18 17:13 |
| S5  | 41     | S1 and (photodetector (laser adj3<br>reception) (photo adj2 diode)<br>photodiode (photo adj2 sen\$4))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/18 17:44 |
| S6  | 19913  | S4 and (photodetector (laser adj3<br>reception) (photo adj2 diode)<br>photodiode (photo adj2 sen\$4))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/18 17:15 |

|     |       |  |   |    |     |                  |
|-----|-------|--|---|----|-----|------------------|
| S7  | 1413  | S6 and hologram  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/18 17:15 |
| S8  | 1134  | S6 and hologram and (diffract\$4 grat\$4)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/18 17:46 |
| S9  | 2     | ("20040202224").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/08/18 17:18 |
| S10 | 102   | S6 and hologram and ((three third) near (diffract\$4 grat\$4))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/18 17:40 |
| S11 | 63    | S6 and hologram and (three near (diffract\$4 grat\$4))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/18 17:47 |
| S12 | 2     | ("20050100061").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/08/18 17:41 |
| S13 | 46    | S1 and (photodetector (laser adj3 reception) (photo adj2 diode) photodiode (photo adj2 sen\$4) (light adj2 receiv\$4)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/18 17:46 |
| S14 | 25971 | S4 and (photodetector (laser adj3 reception) (photo adj2 diode) photodiode (photo adj2 sen\$4) (light adj2 receiv\$4)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/18 17:46 |
| S15 | 1463  | S14 and hologram and (diffract\$4 grat\$4)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/18 17:47 |
| S16 | 71    | S14 and hologram and (diffract\$4 grat\$4)and (three near (diffract\$4 grat\$4))                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/18 18:03 |

|     |        |  |   |    |     |                  |
|-----|--------|--|---|----|-----|------------------|
| S17 | 189    | S14 and hologram and (diffract\$4 grat\$4)and (three near2 (diffract\$4 grat\$4))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/19 10:42 |
| S18 | 1      | "I14" and hologram and (diffract\$4 grat\$4)and ((three with (diffract\$4 grat\$4)) near beam)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/19 10:42 |
| S19 | 113163 | semiconductor adj2 laser   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/19 10:42 |
| S20 | 25971  | S19 and (photodetector (laser adj3 reception) (photo adj2 diode) photodiode (photo adj2 sen\$4) (light adj2 receiv\$4))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/19 10:42 |
| S21 | 91     | S20 and hologram and (diffract\$4 grat\$4)and ((three with (diffract\$4 grat\$4)) near beam)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/19 15:07 |
| S22 | 2      | ("20040202224").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/08/19 11:00 |
| S23 | 2      | ("6868055").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/08/19 11:00 |
| S24 | 22     | S20 and hologram and ((diffract\$4 grat\$4)and ((three with (diffract\$4 grat\$4)) near beam) with (photodetector (laser adj3 reception) (photo adj2 diode) photodiode (photo adj2 sen\$4))) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2005/08/19 11:05 |
| S25 | 12     | ("4731772"   "4885734"   "4929823"   "4972400"   "5016954"   "5018804"   "5070488"   "5243583"   "5285062"   "5293038"   "5446719"   "5481524").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | ON  | 2005/08/19 12:03 |
| S26 | 5      | ((("2000076689") or ("6285203")).PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/08/19 12:04 |



|     |        |   |   |    |     |                  |
|-----|--------|---|---|----|-----|------------------|
| S27 | 2      | ("6285203").PN. or (2000/076689).CCLS.  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/19 12:05 |
| S28 | 2      | ((("20010076689") or ("6285203"))).PN.  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/19 12:07 |
| S29 | 4      | ((("20010028626") or ("6285203"))).PN.  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/19 14:16 |
| S30 | 2      | ("20020097660").PN.   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/19 14:27 |
| S31 | 2      | ("6084710").PN.   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/08/19 14:27 |
| S32 | 113163 | semiconductor adj2 laser  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/08/19 15:09 |
| S33 | 25971  | S32 and (photodetector (laser adj3 reception) (photo adj2 diode) photodiode (photo adj2 sen\$4) (light adj2 receiv\$4))         | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/08/19 15:09 |
| S34 | 0      | S33 and hologram and (diffract\$4 grat\$4)and ((three with (diffract\$4 grat\$4)) near beam) and (quarter near plate)           | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/08/19 19:18 |
| S35 | 14     | S33 and hologram and (diffract\$4 grat\$4)and ((three with (diffract\$4 grat\$4)) near beam) and (quarter near (plate wave\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2005/08/19 19:15 |